

INCH-POUND

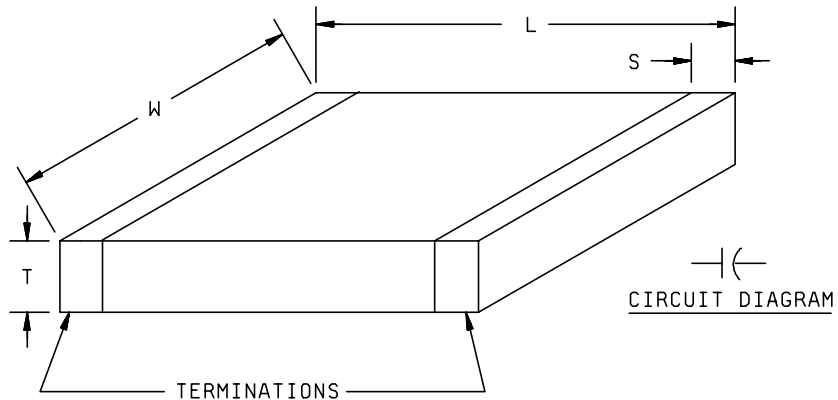
MIL-PRF-123/10B  
18 June 2001  
SUPERSEDING  
MIL-PRF-123/10A(NA)  
27 August 1990

# PERFORMANCE SPECIFICATION SHEET

CAPACITORS, FIXED, CERAMIC DIELECTRIC,  
(TEMPERATURE STABLE AND GENERAL PURPOSE),  
HIGH RELIABILITY, NONLEADED, STYLE CKS51

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein  
shall consist of this specification and MIL-PRF-123.



Dimensions				
L ± .015	W ± .015	T		S ± .010
		Min	Max	
.080	.050	.020	.055	.020

Inches	mm
.010	0.25
.015	0.38
.020	0.51
.050	1.27
.055	1.40
.080	2.03

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions and tolerances are for bare chips. For solder coated terminations, add .020 inch to the positive length tolerance and .015 inch to the positive width and thickness tolerances.

FIGURE 1. Style CKS51 capacitors.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case type: Multi-layer, unencapsulated, monolithic ceramic.

Termination: M, G, S, or W in accordance with MIL-PRF-123.

Capacitance value: See table I.

Capacitance tolerance: See table I.

Operating temperature: -55°C to +125°C.

Rated voltage: 50 V dc.

Marking: In accordance with MIL-PRF-123.

TABLE I. Style CKS51 characteristics.

Part or Identifying Number (PIN) <u>1/</u>	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts)
M123A10BPB1R0--	1.0	C, D	BP	50
M123A10BPB1R1--	1.1	C, D	BP	50
M123A10BPB1R2--	1.2	C, D	BP	50
M123A10BPB1R3--	1.3	C, D	BP	50
M123A10BPB1R5--	1.5	C, D	BP	50
M123A10BPB1R6--	1.6	C, D	BP	50
M123A10BPB1R8--	1.8	C, D	BP	50
M123A10BPB2R0--	2.0	C, D	BP	50
M123A10BPB2R2--	2.2	C, D	BP	50
M123A10BPB2R4--	2.4	C, D	BP	50
M123A10BPB2R7--	2.7	C, D	BP	50
M123A10BPB3R0--	3.0	C, D	BP	50
M123A10BPB3R3--	3.3	C, D	BP	50
M123A10BPB3R6--	3.6	C, D	BP	50
M123A10BPB3R9--	3.9	C, D	BP	50
M123A10BPB4R3--	4.3	C, D	BP	50
M123A10BPB4R7--	4.7	C, D	BP	50
M123A10BPB5R1--	5.1	C, D	BP	50
M123A10BPB5R6--	5.6	C, D	BP	50
M123A10BPB6R2--	6.2	C, D	BP	50
M123A10BPB6R8--	6.8	C, D	BP	50
M123A10BPB7R5--	7.5	C, D	BP	50
M123A10BPB8R2--	8.2	C, D	BP	50
M123A10BPB9R1--	9.1	C, D	BP	50
M123A10BPB100--	10	C, J, K	BP	50
M123A10BPB110--	11	C, J, K	BP	50
M123A10BPB120--	12	C, J, K	BP	50
M123A10BPB130--	13	C, J, K	BP	50
M123A10BPB150--	15	C, J, K	BP	50
M123A10BPB160--	16	C, J, K	BP	50
M123A10BPB180--	18	C, J, K	BP	50
M123A10BPB200--	20	C, J, K	BP	50

See footnote at end of table.

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TABLE I. Style CKS51 characteristics - Continued.

Part or Identifying Number (PIN) <sup>1/</sup>	Capacitance (pF)	Capacitance tolerance	Voltage-temperature limits	Rated voltage (volts)
M123A10BPB220--	22	C, J, K	BP	50
M123A10BPB240--	24	C, J, K	BP	50
M123A10BPB270--	27	F, J, K	BP	50
M123A10BPB300--	30	F, J, K	BP	50
M123A10BPB330--	33	F, J, K	BP	50
M123A10BPB360--	36	F, J, K	BP	50
M123A10BPB390--	39	F, J, K	BP	50
M123A10BPB430--	43	F, J, K	BP	50
M123A10BPB470--	47	F, J, K	BP	50
M123A10BPB510--	51	F, J, K	BP	50
M123A10BPB560--	56	F, J, K	BP	50
M123A10BPB620--	62	F, J, K	BP	50
M123A10BPB680--	68	F, J, K	BP	50
M123A10BPB750--	75	F, J, K	BP	50
M123A10BPB820--	82	F, J, K	BP	50
M123A10BPB910--	91	F, J, K	BP	50
M123A10BPB101--	100	F, J, K	BP	50
M123A10BPB111--	110	F, J, K	BP	50
M123A10BPB121--	120	F, J, K	BP	50
M123A10BPB131--	130	F, J, K	BP	50
M123A10BPB151--	150	F, J, K	BP	50
M123A10BPB161--	160	F, J, K	BP	50
M123A10BPB181--	180	F, J, K	BP	50
M123A10BPB201--	200	F, J, K	BP	50
M123A10BPB221--	220	F, J, K	BP	50
M123A10BPB241--	240	F, J, K	BP	50
M123A10BPB271--	270	F, J, K	BP	50
M123A10BXB331K-	330	K	BX	50
M123A10BXB391K-	390	K	BX	50
M123A10BXB471K-	470	K	BX	50
M123A10BXB561K-	560	K	BX	50
M123A10BXB681K-	680	K	BX	50
M123A10BXB821K-	820	K	BX	50
M123A10BXB102K-	1,000	K	BX	50
M123A10BXB122K-	1,200	K	BX	50
M123A10BXB152K-	1,500	K	BX	50
M123A10BXB182K-	1,800	K	BX	50
M123A10BXB222K-	2,200	K	BX	50
M123A10BXB272K-	2,700	K	BX	50
M123A10BXB332K-	3,300	K	BX	50
M123A10BXB392K-	3,900	K	BX	50
M123A10BXB472K-	4,700	K	BX	50

<sup>1/</sup> Complete PIN shall include additional letter(s) to indicate capacitance tolerance and termination, if applicable.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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Custodians:  
Navy - EC  
Air Force - 19  
DLA - CC  
NASA - NA

Preparing activity:  
DLA - CC  
(Project 5910-2130-03)